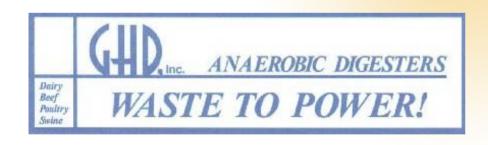
Two-Staged Mixed Plug Flow Anaerobic Digesters





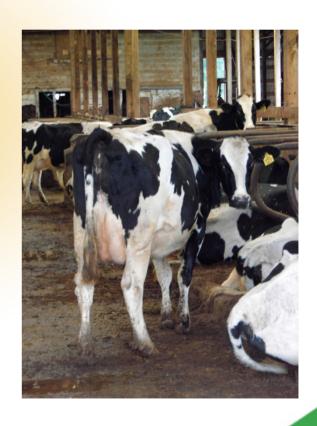


Digester Projects Developed 2001 - 2008



DAIRY DIGESTER PROJECTS

- 137,900 WCE
- 65 Digesters
- 45 Dairies (750 15,000 WCE)
- 13 States
- 37.9 MW Electricity



 POSITIVE TRENDS FOR DEVELOPING PROJECTS

• CHALLENGES WITH DEVELOPING PROJECTS

POSITIVE TRENDS

Revenue Streams Are Increasing

Power Rates Are Increasing in Real Dollars



Carbon Credit Markets Are Developing Internationally

Renewable Energy Credits Are Being Sought By
Utilities



New Fiber Markets Are Developing

POSITIVE TRENDS

- Revenue Streams Are Increasing
- High Efficiency Biogas Engines Available In Variety of Sizes
- Significant Interest By Dairy Industry In Digesters Nationally
- Investment Community Increasingly Views Digesters As Good Investments

CHALLENGES

- Financial Climate
- Regulatory Environment in Some States
- Utility Interconnect Process Taking More Elapsed Time
- Staying On Top Of Preventive Maintnance

George DeRuyter & Sons Dairy

"Providing Sustainable Energy For Yakima County"

BIOGAS ANAEROBIC MANURE DIGESTER

CONSTRUCTION & MANAGEMENT PROVIDED BY:



PATENTED ENGINEERING & DESIGN PROVIDED BY:



920-849-9797

mage Courtesy of USGS/ Cascades Volcano Observatory

George DeRuyter & Sons Dairy Anaerobic Digester

- Project Statistics
 - Located Near Sunnyside, WA
 - Designed for 4,300 cows
 - Actual WCE 4050
 - Construction Started in March 2006
 - Construction Completed October 2006
 - First Power Generated November 2006
 - Generation Capacity 1200 kW/h





























